



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

when he touched it he saw that it was changed into a toad, which sprang upon his face and squatted there, and would not go away. When any one tried to take it off, it spat out poison and seemed about to spring in the face, so that at length nobody dared to meddle with it. Now this toad the ungrateful son was compelled to feed, lest it should feed on his flesh ; and with this companion he moved wearily about from place to place, and had no rest anywhere in this world." This very story is found in Etienne de Bourbon, 163, Bromyard, F. 22, Pelbartus, *Serm. de Temp. Hiem.*, 22, B, not to mention other works of the same class, which are mentioned in Oesterley's notes to Pauli, 437, and in Douhet, *Dictionnaire des Légendes*, col. 305, n. 158. Until quite recently Grimm's version was the only popular one known, but a version from Lower Brittany has lately been published by F. M. Luzel, *Légendes chrétiennes de la Basse-Bretagne*, Paris, 1881, vol. ii, p. 179, *Le Fils ingrat*. There are probably other popular versions which have not yet been collected, the class of legends or legendary and religious stories having been greatly neglected by collectors of popular literature. There is no need of insisting upon the importance of the *exempla* in the diffusion of stories, but we may mention in conclusion two cases of wholesale absorption of Oriental stories into collections of *exempla* or similar works. The first case is that of the *Disciplina clericalis* of Petrus Alfonsi, which has been taken up into the *Libro de Enxemplos* mentioned above ; the second is the Seven Wise Masters, a compend of which is found in the *Scala Coeli* of a Dominican monk, Joannes Junior, who lived in the middle of the XIV century, and wrote a work of the same general description as Bromyard's and Etienne de Bourbon's.* Separate stories from both of the above Oriental collections are frequently encountered among the popular tales of Europe, and their wide diffusion is doubtless due to their absorption into the above collections.

The Latitude of Haverford College Observatory. By Isaac Sharpless.

(Read before the American Philosophical Society, April 6, 1883.)

The latitude of Harverford College Observatory was determined in the year 1854, by Prof. Jos. G. Harlan, by the use of a transit instrument in the prime vertical. Imperfect records of his results and none at all of his computations remain, but from them he deduced a value of $40^{\circ} 0' 36.5''$.

In the spring of 1881, a zenith instrument was placed in position in the observatory. The telescope has an aperture of $1\frac{3}{4}$ inches, and with its standards revolves about a vertical axis. It is provided with micrometer and levels.

* This compend of Joannes Junior is of great importance in the study of the Western branch of the Seven Wise Masters, and has been reprinted by K. Goedeke in the *Orient und Occident*, iii, pp. 388-423, *Liber de septem Sapientibus*.

The latitude was determined by pairs of stars, one of each pair being north and one south of the zenith. The difference of the zenith distances was measured by the micrometer and the latitude calculated by the formula,

$$\varphi = \frac{1}{2} (\delta + \delta') + \frac{1}{2} (Z - Z')$$

As a preliminary work the value of a revolution of the micrometer screw was determined by observing the passage of a star between the wires set at some known distance apart, and multiplying the time by the factor

$$\frac{15 \times \cos \text{Dec}}{\text{Dist. between wires}}. \text{ The mean of twenty-one observations was } 111.6''.$$

A better result was obtained by the method of observing Polaris at time of greatest elongation. This time T_0 and the zenith distance Z_0 were first calculated and the telescope set at the latter angle. About twenty minutes before T_0 the movable micrometer wire was set in front of the star and the time of crossing recorded on the chronograph; the wire was then advanced one-fifth of a revolution, and the time again noted, and so on forty times. From these were obtained twenty values of a revolution of the screw. The computation is given in outline in the following table. The quantity $Z - Z_0$ was computed in each case by the equation :

$$Z - Z_0 = \sin (T - T_0) \frac{\cos \delta}{\sin 1''}$$

The level error was so slight that it was not taken into account ;

No.	Micrometer Reading.	T.	T-T ₀ .	Z ₀ -Z.
1	6.80	6 ^h 50 ^m 18. ^s 2	— 21 ^m 3. ^s 1	— 433.59
2	6.60	51 16.2	— 20 5.1	— 412.68
3	6.40	52 33.2	— 18 49.1	— 387.70
4	6.20	53 34.2	— 17 47.1	— 366.55
5	6.	54 40.9	— 16 40.4	— 343.59
	etc.	etc.	etc.	etc.
21	2.80	6 ^h 72 0.2	+ 0 38.9	+ 13.55
22	2.60	73 16.4	+ 1 45.1	+ 36.12
23	2.40	74 17.4	+ 2 56.1	+ 60.52
24	2.20	75 4.2	+ 3 42.9	+ 76.61
25	2.	76 14.4	+ 4 53.1	+ 100.74
	etc.	etc.	etc.	etc.

Comparing the 1st observation with 21st, the 2d with 22d and so on, and dividing the results by 4, we obtain for the value of a revolution of the screw by this method the following :

111.78	111.25	113.04	109.92
112.20	110.71	113.98	112.66
112.05	111.28	113.26	112.76
110.76	110.67	112.78	111.88
111.08	111.59	112.25	111.16

The mean of these is 111.^{''}9 and this is the value employed in subse-

quent work. The probable error of this mean by the method of least square is 0."14.

The value of a level division was obtained by placing the movable micrometer wire on a terrestrial mark, and taking the reading, and again after the instrument was changed in altitude so as to cause the bubble to to move through a certain number of divisions. This gave it in micrometer revolutions, which were afterwards reduced to seconds. The result of a large number of determinations gave, as the most probable value, 6".3.

The stars used were taken from the Nine Years Catalogue of Greenwich Observatory for 1872, the mean declinations calculated for the epoch 1881.0, 1882.0, or 1883.0, and the apparent declinations for the night of observation were obtained by the use of the "independent star numbers" of the American Nautical Almanac. The results were as follows :

Date.	Catalogue No. of Stars.	$\frac{1}{2} (\delta + \delta')$	Micrometer Correction.	Level Cor- rection.	Latitude.
1881.					
10 mo. 26.	62 77	40° 5' 32".99	— 4' 45".85	— 6".72	40° 0' 40".42
" "	2166 2185	40 0 56.29	— 16.45	+ 3.	42.84
" "	48 51	39 56 22.	+ 4 6.23	+ 10.5	38.73
10 mo. 27.	48 51	39 56 22.	+ 4 25.65	— 8.1	39.55
11 mo. 15.	2166 2185				42.92
" "	48 51	39 56 24.45	+ 4 19.83	— 4.5	40.08
12 mo. 8.	48 51	39 56 26.23	+ 3 57.26	+ 17.85	41.34
12 mo. 9.	48 51	39 56 26.29	+ 3 57.57	+ 20.1	43.89
12 mo. 10.	48 51	39 56 26.30	+ 4 1.59	+ 14.6	42.49
" "	62 77	40 5 41.87	+ 5 13.27	+ 14.6	43.20
12 mo. 16.	48 14	39 56 26.39	+ 4 30.50	— 11.85	45.11
" "	62 77	40 5 33.40	+ 4 43.65	— 14.7	40.05
12 mo. 17.	62 77	40 5 33.46	— 4 50.65	+ 7.7	40.11
12 mo. 19.	48 51	39 56 28.54	+ 4 24.07	— 12.3	38.31
" "	62 77	40 5 33.48	+ 4 50.16	— 9.9	38.42
12 mo. 24.	48 51	39 56 26.80	+ 4 16.86	— 2.4	41.28
" "	62 77	40 5 33.43	— 4 51.5	— 8.55	38.28
1882.					
1 mo. 27.	567 569	40 6 16.17	— 5 42.02	+ 5.78	39.93
1 mo. 30.	530 550	39 59 51.73	+ 42.69	+ 3.	37.42
" "	567 569	40 6 24.03	— 5 39.50	+ 6.13	38.40
2 mo. 1.	530 550	39 59 51.44	+ 41.24	+ 6.45	39.13
" "	567 569	40 6 15.67	+ 5 43.53	+ 3.80	35.94
2 mo. 8.	530 550	39 59 58.19	+ 32.12	+ 12.6	42.91
2 mo. 10.	530 550	39 59 53.27	+ 30.21	+ 9.88	38.36
" "	567 569	40 6 22.28	+ 5 46.38	+ 3.3	39.20
2 mo. 11.	530 550	39 59 58.31	+ 37.88	+ 8.85	45.04
2 mo. 14.	567 569	40 6 22.00	+ 5 43.34	+ 2.55	36.21
2 mo. 17.	530 550	39 59 58.60	+ 28.98	+ 8.85	36.43
11 mo. 5.	2049 2070	40 0 59.76	+ 6.32	— 22.05	44.03
11 mo. 9.	2049 2070	40 0 59.645	+ 1.119	— 20.217	40.55
12 mo. 8.	2166 2185	40 1 15.573	— 41.347	+ 2.0475	36.27
12 mo. 11.	62 77	40 5 57.32	— 5 30.944	+ 11.025	37.40
12 mo. 16.	48 51	39 56 44.92	+ 4 24.307	+ 31.5	37.73
12 mo. 18.	48 51	39 56 44.923	+ 3 36.582	+ 17.797	39.30
12 mo. 18.	62 77	40 5 57.46	— 5 36.966	+ 18.27	38.77
12 mo. 19.	48 51	39 56 44.92	+ 3 37.5338	+ 18.1115	39.97
12 mo. 28.	48 51	39 56 44.79	+ 4 5.7883	+ 13.86	36.72
12 mo. 28.	62 77	40 5 56.813	— 5 2.13	— 17.64	37.04
1883.					
1 mo. 2.	261 279	39 54 46.794	+ 6 5.913	— 15.281	37.44
1 mo. 11.	261 279	39 54 51.519	+ 6 10.366	— 21.735	40.15
1 mo. 12.	530 550	39 59 53.852	+ 54.495	— 7.087	41.26
1 mo. 22.	530 550	39 59 56.380	+ 50.243	— 5.985	40.64
2 mo. 2.	530 550	39 59 52.351	+ 1 6.02	— 20.947	38.37
2 mo. 5.	466 475	40 10 41.431	— 10 19.478	+ 15.12	37.07

Date.	Catalogue No. of Stars.		$\frac{1}{2}(\delta + \delta')$.		Micrometer Correction.	Level Cor- rection.	Latitude.			
1883.										
2 mo. 5.	489	495	39	58	56.523	+ 1	12.567	+ 31.815	39.91	
"	530	550	39	59	56.002	+	21.5061	+	22.68	43.19
"	567	569	40	6	19.803	— 6	5.949	+	23.153	36.99
2 mo. 8.	466	475	40	10	44.976	— 10	11.925	+	3.78	36.83
"	467	475	40	12	12.959	— 11	37.301	+	3.78	39.44
"	489	495	39	58	55.198	+	41.325	+	3.15	39.67
"	530	550	39	59	56.306	+	43.75	+	0.787	40.84
"	567	569	40	6	20.131	— 5	43.5889	+	3.15	39.70
"	577	591	39	51	35.175	+ 9	9.149	—	3.44	40.88
"	578	591	40	5	10.217	— 4	27.16	+	3.44	39.62
2 mo. 9.	466	475	40	10	44.976	— 9	9.373	+	7.56	43.16
"	489	495	39	58	55.198	+	40.150	+	3.44	38.79
"	567	569	40	6	20.1325	— 5	45.9948	+	7.245	41.38
"	682	710	39	56	19.1645	+ 4	13.733	+	6.3	39.20
"	697	710	39	54	34.2665	+ 6	1.493	+	6.3	42.46
2 mo. 12.	466	475	40	10	44.041	— 9	46.635	+	7.56	41.97
"	489	495	39	58	55.782	+ 1	33.044	+	6.615	35.43
"	530	530	39	59	56.5465	+	41.1792	+	3.15	40.84
"	567	569	40	6	20.3575	— 5	43.309	+	2.3625	39.41
"	578	591	40	5	4.822	— 4	29.769	+	2.677	37.73
"	697	710	39	54	34.5405	+ 6	10.165	+	.945	45.65
2 mo. 13.	466	475	40	10	44.041	— 10	13.547	+	6.15	37.11
"	567	569	40	6	20.3575	— 5	34.0215	—	9.135	37.20
"	697	710	39	54	34.5405	+ 6	22.1385	—	14.49	42.18
2 mo. 23.	530	550	39	59	57.113	+	44.928	+	.787	42.83
"	753	757	39	56	7.521	+ 4	37.368	+	4.882	40.01
2 mo. 27.	530	550	39	59	57.031	+	44.20	+	3.1	44.33
3 mo. 8.	812	822	39	54	18.609	+ 6	28.125	+	2.047	44.69
3 mo. 13.	779	812	40	0	26.399	+	3.357	+	11.496	41.27
"	779	834	39	53	53.759	+ 6	35.276	+	11.025	40.06
"	779	859	39	56	43.715	+ 3	47.381	+	7.718	38.81
3 mo. 14.	812	822	39	54	19.105	+ 6	24.096	+		43.20

The mean of these 76 results gives the latitude of the Observatory
 $40^{\circ} \quad 0' \quad 40.085$.

Assuming them all to be of equal weight, the probable error of a single observation is $1.706''$ and of the final result $.191''$.

NOTE.—The value of the longitude of the Observatory, standing on our books, but obtained, we do not know how, is $6m. 59.3 \text{ sec.}$ East of Washington. At the time of the Transit of Venus, Washington time was telegraphed to our railroad station, distant one-half mile from the Observatory and compared with our local time. The mean of three days' comparisons gave a difference of $6m. 59.6 \text{ sec.}$

On a Crinoid with Movable Spines. By Henry S. Williams.

(Read before the American Philosophical Society, April 20, 1883.)

Among the rarer forms of the second fauna of the upper Devonian, at the base of the Chemung group, Ithaca, N. Y., is a Crinoid with some interesting features.

In its general characters it agrees with the family *Platycrinidae* of Rømer, and falls under the section *Hexacrinites* as defined by Wachsmuth and Springer in Revision of the Palæocrinoidea, Pt. II, p. 56.